

20080705.ba v04_n185.bam.20080705

>From ???@??? Sat Jul 5 15:42:11 2008 -0500
Date: Sat, 5 Jul 2008 15:40:58 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4185
Message-Id: <20080705213851.9C49F10B196@srvr1.theporch.com>

BOATANCHORS Digest 4185

Topics covered in this issue include:

- 1) Re: Need Meter Movement Repair
by "RJ Mattson" <rjmattson@hvi.net>
- 2) Re: [Hallicrafters] BA's at Field Day
by "David Thompson" <thompson@mindspring.com>
- 3) Re: [Hallicrafters] BA's at Field Day
by "Marty Reynolds' debris field" <polepeeg@aa4rm.ba-watch.org>
- 4) Need Replacement Collins 32S-1 Meter or Repair
by "Gary H. Harmon, Jr" <gharmon@idworld.net>
- 5) Collins 32S-1 Problem
by "Gary H. Harmon, Jr" <gharmon@idworld.net>
- 6) Night of Nights IX - Official Announcement
by Richard Dillman <ddillman@igc.org>
- 7) Ralph Ilowite (SK)
by listown@nanniandjack.com (Mail List Owner)
- 8) Re: Collins 32S-1 Problem
by "k4pf@juno.com" <k4pf@juno.com>
- 9) Amplifier Keying Problem
by "Dr. James C. Garland" <4cx250b@muohio.edu>
- 10) Need article copy QST 7/51 p38
by "JAMES HANLON" <knjhanlon@msn.com>
- 11) Re: 75S-1 Problem
by "k4pf@juno.com" <k4pf@juno.com>
- 12) Subminiature Tube Video
by Edward J White <wa3bzt@verizon.net>

Message-ID: <00e801c8db6f\$ff601980\$b0c164d0@Compaq2200>

From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <milsurplus@mailman.qth.net>
Subject: Re: Need Meter Movement Repair
Date: Tue, 1 Jul 2008 07:45:27 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I've had good results with Eldad, K2AB.
He runs an active repair shop.
Email: Eldad@HVC.RR.com

bob...w2ami x wn2ami 1962

----- Original Message -----

From: "Don Davis" <dxguy@earthlink.net>
Subject: Need Meter Movement Repair

Title says it all. Got a wattmeter movement that's off the springs.
Please only write if you have first-hand knowledge of an active
business - none of the old postings for this have any good links for
active businesses.

Thanks and 73 de Don AD6PB

Message-ID: <009401c8db97\$8fbf4240\$6a649a04@yourxb2x7j77gn>

From: "David Thompson" <thompson@mindspring.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: [Hallicrafters] BA's at Field Day

Date: Tue, 1 Jul 2008 12:28:56 -0400

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

It was not too long ago that boatanchors were the mainstay of field day
operations. We had a long history at W5KHB (Old Natchez ARC) of BA's and
mini Ba's.

In 1957 we had a NC-300 and DX-100 on 10/80 and a pair of Gonset twins. The
Gonset twins continued for years until replaced with Heath SB-100
tranceivers. One year we made over 700 15 meter AM QSOs on the twins owned
by W5KHB.

I ran the 20 meter position for several years and the rigs were a
Ranger/HQ-110, KWM-1, Eldico SSB-100 and HQ-170, and finally the
Hallicrafters twins (SX-117 and HT-44). We made between 500 and 800 QSOs on
phone and nearly 400 on CW on a regular basis. The KWM-1 was borrowed and
we found that it did not cover the newly expanded 20 meter band (14.3 to
14.350) in 1960. We still made 600 SSB and 300 CW QSOs to a Gonset Bantum 2
el beam. Bet that is an antenna no one has heard of. Gonset made antennas
for a number of years including a 2 and 3 el. tri-bander. I had the 3 el

version at home.

Operating is too easy now. You just talk or keyboard without ever tuning the transmitter or peaking the antenna on the receiver.

Hope everyone had fun and did not get too hot or wet.

73 Dave K4JRB

Message-ID: <13530.24.30.81.88.1215015066.squirrel@fracas.netboobie.org>
Date: Wed, 2 Jul 2008 12:11:06 -0400 (EDT)
Subject: Re: [Hallicrafters] BA's at Field Day
From: "Marty Reynolds' debris field" <polepeeg@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Good stories!

Ran a IC703 on 15 & 40 as 2A bat / 5w. Incredible feature set in that little beaut.

Me'n W2CQH, & K2UFT just used a Trac or Bencher paddle. No other fru-frus. Not quite the panache as a NC-300 & DX-100 & big sluggin' genny.

Good fun & stayed mostly dry @ Ack farm in Tate as W4RRW (sk)

Marty aka 'rm

From: "Gary H. Harmon, Jr" <gharmon@idworld.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need Replacement Collins 32S-1 Meter or Repair
Date: Wed, 2 Jul 2008 19:27:25 -0500
Message-ID: <00ea01c8dca3\$9141aec0\$0a00a8c0@garyh4i1k3x2lw>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

I need a meter for a nice 32S-1 transmitter or a lead toward economical repair. It's a Simpson meter with 0-400 MA and 0-16 DB scales.

Thanks in advance.

73,

Gary H. Harmon, Jr. / K5JWK
6003 Archwood
San Antonio, TX 78239-1504
210.884.6926
gharmon@idworld.net

"Retirement means everyday is a Saturday except Sunday."

From: "Gary H. Harmon, Jr" <gharmon@idworld.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Collins 32S-1 Problem
Date: Thu, 3 Jul 2008 16:05:46 -0500
Message-ID: <007001c8dd50\$9034ca00\$0a00a8c0@garyh4i1k3x2lw>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

The 32S-1 I have is experiencing the following problem.

There is no output in TUNE or CW but there is normal output in LOCK KEY. In LOCK KEY the bottom relay holds but when you move it to TUNE or CW the relay falls out. In CW, closing the key has no effect. Tubes all check good. No voltage checks yet.

Thoughts?

73, gary

Gary H. Harmon, Jr. / K5JWK
6003 Archwood
San Antonio, TX 78239-1504
210.884.6926
gharmon@idworld.net

"Retirement means everyday is a Saturday except Sunday."

Message-ID: <6099076.1215136823158.JavaMail.root@elwamui-polski.atl.sa.earthlink.net>
Date: Thu, 3 Jul 2008 22:00:23 -0400 (EDT)
From: Richard Dillman <ddillman@igc.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Night of Nights IX - Official Announcement

Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 7bit

At the transmitting station in Bolinas, CA, the MRHS transmitting staff has been busy tuning up vintage transmitters from the 1940s and 1950s, allocating keying lines and connecting antennas for stations KPH, KFS and KSM. The operations staff is getting the logs in place, preparing commemorative messages and making sure everything at the receiving station at Pt. Reyes, CA, is in order.

Stations WLO, KLB, NMC, NMF and NOJ have all checked in and declared their intention to be on the air.

What's it all about? Night of Nights IX of course.

On 12 July 1999 commercial Morse ended in the US - or so it was thought. Just one year - and one minute - later, the Maritime Radio Historical Society had returned KPH to the air. Every year since KPH has returned to the air to maintain the traditions and preserve the skills of radiomen and radiowomen everywhere. Their finely honed skills and unquestioned courage in time of peril upon the sea made the profession of radiotelegraph operator one of honor.

Now many other stations have joined KPH on the air. Each year the marine bands are once again populated with signals as they were during the golden age.

July 12 is drawing near. And once again ships at sea and listeners around the world will wait with their earphones pressed close to hear those famous call letters rise up out of the static.

DETAILS: Times, frequencies, QSL information and more are all available on the MRHS Web site at:

<http://www.radiomarine.org>

Click on the "Night of Nights IX" button.

VY 73,

MRHS

=====
Richard Dillman, W6AWO
Chief Operator, Coast Station KSM
Maritime Radio Historical Society
<http://www.radiomarine.org>
=====

From: listown@nanniandjack.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Ralph Ilowite (SK)
Cc: phyllis.nutkis@gmail.com
Date: Fri, 4 Jul 2008 3:43:01 -0700 (PDT)
Message-Id: <20080704104302.03242160A7@osr506.nanniandjack.com>

Gang-

Phyllis Nutkis wrote to tell me her father, Ralph Ilowite, passed away 2 months ago. He had a large amount of old radio equipment which the family now need to go through (and dispose of.)

Many of you knew Ralph and perhaps dealt with him, as I know he often bought and/or sold items through this group.

I am including Ms. Nutkis' address in the cc so that those of our group who would like to help out may contact her directly.

And, to Ms. Nutkis: Rather than you having to wade through the discussions on the list for the few posts related to you, if you would send me a list of items, I will happily post it to the list and do what I can to help you to sell the equipment to people who are interested.

Let me know how I can help

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@nanniandjack.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"

Mime-Version: 1.0
From: "k4pf@juno.com" <k4pf@juno.com>
Date: Fri, 4 Jul 2008 21:18:13 GMT
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Collins 32S-1 Problem
Message-Id: <20080704.171813.7940.1@webmail01.vgs.unttd.com>
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline
Content-Type: text/plain; charset=ISO-8859-1

Hi, Gary

Sorry, I'm not a 32S-1 guy, but I remember Collins undersized the cathode resistors in the VOX circuit for the KWM-2, and presume they also did on the 32S. That would result in the cathode resistors changing value over the years.

If no VOX action, no c.w. on key closure. (is your VOX gain pot turned clockwise?)

The biggest puzzle to me is no output on tune, but you do have output in lock key. In tune, they reduce screen voltage to the 6146's, but the conditions are otherwise identical to lock key. If the 6146 screen supply is open during tune, output would be zero. You should have maybe 15W out in tune position. Does the meter show ALC as you advance the grid drive?

73,
Ed Knobloch

-- "Gary H. Harmon, Jr" <gharmon@idworld.net> wrote:

>The 32S-1 I have is experiencing the following problem.
=

There is no output in TUNE or CW but there is normal output in LOCK KEY. In LOCK KEY the bottom relay holds =

but when you move it to TUNE or CW the relay falls out. In CW, closing the key has no effect. =

Tubes all check good. No voltage checks yet.
=

Thoughts?
=

73, gary =
=

Gary H. Harmon, Jr. / K5JWK
6003 Archwood
San Antonio, TX 78239-1504 =

210.884.6926
gharmon@idworld.net

=

"Retirement means everyday is a Saturday except Sunday."

From: "Dr. James C. Garland" <4cx250b@muohio.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Amplifier Keying Problem
Date: Sat, 5 Jul 2008 12:07:26 -0600
Message-ID: <033701c8dec9\$fd4a8010\$bd00a8c0@Garland>
MIME-Version: 1.0
Content-Type: multipart/alternative;
 boundary="-----_NextPart_000_0338_01C8DE97.B2B01010"

This is a multi-part message in MIME format.

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Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

HI Gang,

I'm building a station controller for switching three TX/RX combos and three amplifiers, in any combination. The controller is intended to work with vintage rigs as well as contemporary rigs. The latter, such as the IC-756) have keying outputs that can't handle the voltage and current requirements of vintage amplifier keying relays, so some sort of interface circuit is needed. There are many such circuits around, and they typically use either an NPN transistor or MOSFET switch or an external relay.

I'd like to avoid using an external relay, to eliminate clicking and speed up the response for QSK use. The transistor switches are fast, but can key only one polarity of voltage. Some amplifiers ground a positive voltage to key their relays, others (like the 30L-1) ground a negative voltage, typically derived from the tube bias supply. I've not seen any non-relay keying circuits that will key both positive and negative voltages, and wonder if anybody has found one? Some commercial keyers, like the MFJ keyers, have dual outputs, one for each polarity, but I don't want to go that route. I want one output that will key an amplifier of any polarity.

Tnx!

Jim W8ZR

-----=_NextPart_000_0338_01C8DE97.B2B01010
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

-----=_NextPart_000_0338_01C8DE97.B2B01010--

Message-ID: <BAY110-DAV4140B6347CC1CE55619EDA09A0@phx.gbl>
From: "JAMES HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need article copy QST 7/51 p38
Date: Sat, 5 Jul 2008 12:52:12 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_007A_01C8DE9D.F1B8C8F0"

This is a multi-part message in MIME format.

-----=_NextPart_000_007A_01C8DE9D.F1B8C8F0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I'm looking for a copy, a scan would be great, of an article in the July =
1951 QST, "How to Lay Out a Transmitter," by Byron Goodman, W1DX. It =
starts on page 38. I'd appreciate some help from someone who has a copy =
of that QST or a QST View from the 1950's.

Thanks very much!

Jim Hanlon, W8KGI
-----=_NextPart_000_007A_01C8DE9D.F1B8C8F0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

-----=_NextPart_000_007A_01C8DE9D.F1B8C8F0--

Mime-Version: 1.0
From: "k4pf@juno.com" <k4pf@juno.com>
Date: Sat, 5 Jul 2008 19:52:05 GMT
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Re: 75S-1 Problem
Message-Id: <20080705.155205.13670.0@webmail10.vgs.unttd.com>
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline
Content-Type: text/plain; charset=ISO-8859-1

Hi, Gary

The rf circuit alignment needs to be done
with the shield cans installed on the bottom
(the shields change the distributed capacity of the coils).
I suggest you follow the suggestions in the manual, which spells
out where the trimmer caps need to be preset, before you
adjust the lead screws on the preselector coil slug rack. =

There is a possibility that when you turn a trimmer capacitor, =

you won't see an S/meter peak, due to a mechanical failure =

of a trimmer, so careful observation is called for. =

This phase of the alignment is all done above the chassis,
and goes quickly if you don't find a bad trimmer.

You shouldn't skip the IF and 2.955 to 3.155 mc bandpass alignments,
which should be done before tackling the preselector alignment.

73,
Ed Knobloch

-- "Gary H. Harmon, Jr" <gharmon@idworld.net> wrote:

>I decided to do a quick and dirty RF alignment on the receiver since several of the bands don't peak where they are supposed to peak. I also pulled the three shields off to check the switch contacts and apply a little Deoxit. Here are the findings.....with the three shields off, all RF adjustments set properly. With the shields on I get weird results.....= 3.5 peaks and adjusts properly; 7.0 peaks at 3.5; 14.0 peaks at 3.5; 21.0 peaks at 7.0 and 28.0 peaks at 14.0. None of the adjustments have any effect above the 3.5 adjustments.

Thoughts?

Date: Sat, 05 Jul 2008 17:40:14 -0400
From: Edward J White <wa3bzt@verizon.net>
Subject: Subminiature Tube Video
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <486FEA3E.10207@verizon.net>
MIME-version: 1.0
Content-type: text/html; charset=iso-8859-1
Content-transfer-encoding: 7bit

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Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* To the SENDER of this email: *

* Please don't use HTML tags or 'rich text' here. *
* Set your emailer to turn that off. *

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    font-family:"Times New Roman";
    color:black;}
p.MsoEnvelopeReturn, li.MsoEnvelopeReturn, div.MsoEnvelopeReturn
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    margin-bottom:.0001pt;

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    </o:shapelayout></xml><![endif]-->
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<p class="MsoNormal"><font color="navy" face="Arial" size="2"><span

```

style="font-size: 10pt; color: navy; font-family: Arial; "> My uncle, Harry Rubinstein, was called to <st1:State w:st="on">Washington</st1:State> before the invasion of <st1:country-region w:st="on"><st1:place w:st="on">Japan</st1:place></st1:country-region> because the US Army was losing more than 50% of the proximity fuses on launch. The problem was that the high acceleration at launch was tearing the circuitry apart. He was working on the development of silver mica caps at the time, and thought that if you could print circuits on ceramic, you could do away with wiring. He went back to his lab at Globe Union, made two prototypes, flew back to <st1:State w:st="on"><st1:place w:st="on">Washington</st1:place></st1:State>, they tried both, one worked (all this took place in one week (!), and the rest is history. Globe <st1:place w:st="on">Union</st1:place> patented the idea (the printed circuit!!!) in his name, gave him a dollar, and made a fortune. The patent was classified for many, many years, of course, and after the war, many companies came out with printed circuit devices. Harry never made a cent. But he was recognized as the inventor by the IEEE in 1984 and given a major award. Harry was ex-9EEV from the early 1920s, and he was the one that got me started in ham radio back in 1951.<o:p></o:p></p>

<p class="MsoNormal"><o:p> </o:p></p>

<p class="MsoNormal"><a moz-do-not-send="true" href="http://www.engr.wisc.edu/eday/eday1984.html">http://www.engr.wisc.edu/eday/eday1984.html<o:p></o:p></p>

<p class="MsoNormal"><o:p> </o:p></p>

<p class="MsoNormal">Harry also invented the combination on/off switch/volume control and the slider volume control, among other devices.<o:p></o:p></p><p><a moz-do-not-send="true" name="Rubinstein">HARRY W. RUBINSTEIN <o:p></o:p></p>

<p>For his innovations in the technology of printed electronic circuits and the fabrication of capacitors. <o:p></o:p></p>

<p>Harry W. Rubinstein (BSEE '27) was president of Sprague Electric Company, <st1:place w:st="on"><st1:City w:st="on">Grafton</st1:City>, <st1:State w:st="on">Wisconsin</st1:State></st1:place>, from 1952 until

1970. He retired in 1971. Faced with problems of weight, space, and shortage of strategic materials, he developed the printed electronic circuit for the proximity fuse used in bombs in World War II. That project, in addition to the work of the National Bureau of Standards, was the forerunner of the laminated plastic base printed circuits so widely used today. In 1946, he was a cofounder of Herlec Corporation, which concentrated on manufacturing and distributing ceramic disc capacitors. Herlec merged with Sprague Electric in 1948. Mr. Rubinstein was responsible for Sprague's <st1:City w:st="on">Grafton</st1:City>, <st1:State w:st="on">Wisconsin</st1:State>, plant, set up factories in <st1:place w:st="on"><st1:City w:st="on">Nashua</st1:City>, <st1:State w:st="on">New Hampshire</st1:State></st1:place>, and Hillsville. <st1:State w:st="on"><st1:place w:st="on">Virginia</st1:place></st1:State>, and was a consultant to many of Sprague's 31 factories worldwide. He helped improve manufacturing processes, reduce costs, and avoid duplication of facilities and effort. He holds 19 <st1:country-region w:st="on"><st1:place w:st="on">U.S.</st1:place></st1:country-region> patents. He and his wife Else have a daughter and two sons. <o:p></o:p></p>

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<p class="MsoNormal"><o:p> </o:p></p>

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<p class="MsoNormal">

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<td style="padding: 0in;">

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<p class="MsoNormal"> <o:p></o:p></p>

<p class="MsoNormal" style="margin-bottom: 12pt;"><o:p> </o:p></p>
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<pre>Last spring, there was a discussion of people still making vacuum tubes.<o:p></o:p></pre><pre><o:p> </o:p></pre><pre>A few years ago, Norm Krim, the pre-WW II developer of the Raytheon line of sub miniature tubes, gave me a copy of a video made, by the MIT Industrial Liaison Office,<o:p></o:p></pre>

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<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">just before the last production line for those tubes in
<st1:place
  w:st="on"><st1:City w:st="on">Quincy</st1:City>, <st1:State
w:st="on">Massachusetts</st1:State></st1:place>, closed down.&nbsp; With many
thanks to Debbie Douglas, Curator of Science and Technology at the<o:p></o:p></
span></font></pre>
<pre><st1:place w:st="on"><st1:PlaceName w:st="on"><font color="black"
  face="Courier New" size="2"><span style="font-size: 10pt;">MIT</span></font></
st1:PlaceName> <st1:PlaceType
  w:st="on">Museum</st1:PlaceType></st1:place>, &nbsp; that video is now available
for viewing on MIT's Tech TV:<o:p></o:p></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><a moz-do-not-send="true"
  href="http://techtv.mit.edu/file/1125/">http://techtv.mit.edu/file/1125/</
a><o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">Note that there are two options that appear below the
picture on that page. Windows users might want to select the Flash Video option. I
know that works as two friends<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">have been able to view it successfully. You will likely
need a broad band connection. The film is about 16 minutes long.<o:p></o:p></
span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">Norm has told me that the tubes were originally
developed for hearing aid use pre-WW II, and were improved for use in the
Proximity Fuze during the war. Just imagine, a<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">vacuum tube that can be fired from a large gun and still
operate. One clever trick to help the tubes survive was that the filaments were
not powered until the shell was<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">in free flight, either by addend a small wind turbine
generator on the nose of the shell, or by having the battery void of electrolyte
until the shock of firing and the<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">spin of the shell filled the battery.<o:p></o:p></
span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span

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style="font-size: 10pt; ">Shells using the Proximity Fuze were successfully used
in the <st1:City
w:st="on"><st1:place w:st="on">Battle</st1:place></st1:City> of the Bulge (they
caused the shells to air burst, increasing their effective area) and together
with<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">the SCR-584 Radar against the V-1 "Buzz Bombs"<o:p></
o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">Note that the tubes being produced in the video are not
actually for the Proximity Fuze, but were for some US Navy Crypto
application.<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">There is at least one book about the Proximity Fuze
("The Deadly Fuze") and there was also a PBS Nova program of the same name.<o:p></
o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">I hop you enjoy the film.<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">Best,<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">- John<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">(c)<o:p></o:p></span></font></pre>
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style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
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style="font-size: 10pt; "><o:p>&nbsp;</o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size:
10pt; ">_____<o:p></o:p></
span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">Milsurplus mailing list<o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
style="font-size: 10pt; ">Home: <a moz-do-not-send="true"

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href="http://mailman.qth.net/mailman/listinfo/milsurplus">http://mailman.qth.net/
mailman/listinfo/milsurplus</a><o:p></o:p></span></font></pre>
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  style="font-size: 10pt;">Help: <a moz-do-not-send="true"
  href="http://mailman.qth.net/mmfaq.htm">http://mailman.qth.net/mmfaq.htm</
a><o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;">Post: <a moz-do-not-send="true"
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a><o:p></o:p></span></font></pre>
<pre><font color="black" face="Courier New" size="2"><span
  style="font-size: 10pt;"><o:p>&nbsp;</o:p></span></font></pre>
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Checked by AVG. <br>
Version: 7.5.524 / Virus Database: 270.4.3/1527 - Release Date:
6/30/2008 6:07 PM<o:p></o:p></span></font></p>
</div>
<p>
</p>
<hr>No virus found in this incoming message.<br>
Checked by AVG. <br>
Version: 7.5.524 / Virus Database: 270.4.5/1533 - Release Date:
7/3/2008 7:19 PM<br>
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End of BOATANCHORS Digest 4185
